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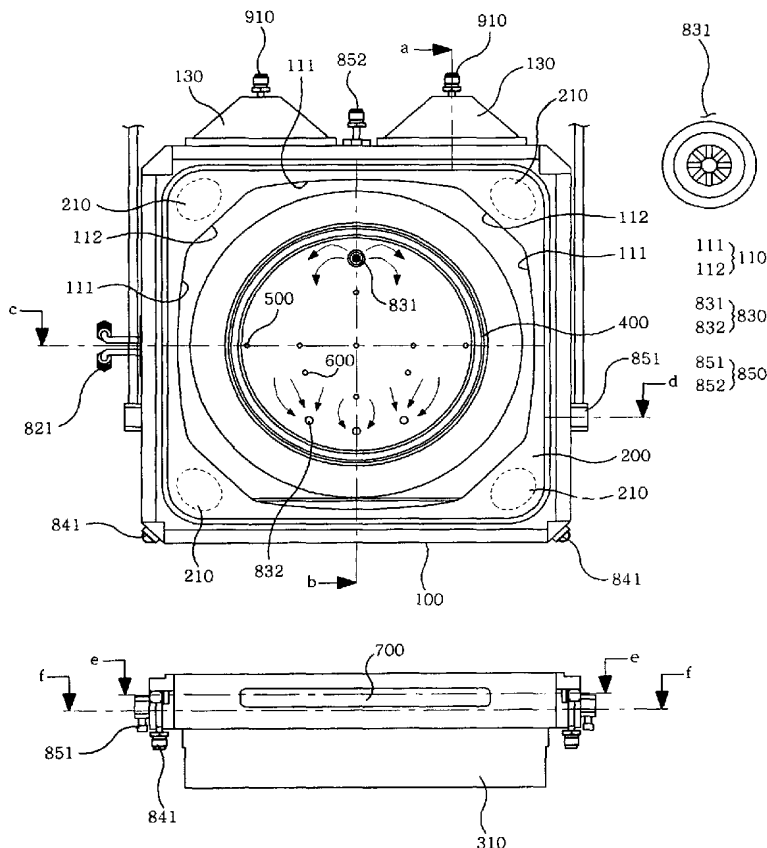
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(54) Title: **RAPID THERMAL PROCESSING SYSTEM**



(57) Abstract: Disclosed herein is a rapid thermal processing system. The rapid thermal processing system comprises a chamber having an inner surface with a cross-section in a multi-line shape consisting of a plurality of arcs separated from each other while having the same radius and the center, and a plurality of lines connecting the arcs. The chamber overcomes disadvantages of a conventional circular-shaped chamber and the square-shaped chamber. Furthermore, a quartz window has an outer peripheral surface consisting of a combination of a tilt surface, a perpendicular surface, and a round surface, so that even though the quartz window is mounted on the chamber in an inversed state, sealing between the chamber and the quartz window can be maintained. Components of an edge ring are connected by means of a double connecting structure, thereby ensuring a high resistance against thermal deformation compared with the prior art. Additionally, the rapid thermal processing system is provided with independent cooling systems for respective components thereof, allowing effective temperature control for the respective components.

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